WO 2005/021577 PCT/US2004/025144

Name of enzyme	No. of cleavages	Positions of cleavage sites		
Arg-C proteinase	2	53 78		
Asp-N endopeptidase	4	22 41 46 87		
CNBr	2	1 39		
Chymotrypsin-high specificity (C-term to [FYW], not before P)	4	3 7 14 49		
Chymotrypsin-low specificity (C-term to [FYWML], not before P)	27	1 3 7 8 9 10 12 14 18 19 29 39 49 50 52 54 56 58 60 62 64 70 72 74 75 76 83		
Clostripain	2	53 78		
Enterokinase	1	48		
Glutamyl endopeptidase	9	28 37 45 46 69 89 91 93 95		
Hydroxylamine	1 ·	. 66		
LysC	3	5 36 48		
Pepsin (pH1.3)	20	2 3 6 8 8 9 9 10 11 12 13 14 17 18 18 19 28 29 48 49		
Pepsin (pH>2)	16	6 8 8 9 9 10 11 12 13 14 17 18 18 19 28 29		
Proline-endopeptidase	1	81		
Proteinase K	35	3 6 7 8 9 10 12 13 14 15 16 17 18 19 20 24 26 29 30 31 32 33 35 41 44 49 55 63 85 86 87 90 92 94 96		
Staphylococcal peptidase I	8	28 37 45 69 89 91 93 95		
Thermolysin	25	6 7 8 9 11 12 13 14 15 16 17 18 19 25 29 30 31 32 38 43 54 62 84 85 86		
Thrombin	1	78		
Trypsin	5	5 36 48 53 78		

FIGURE 1

PCT/US2004/025144

Metal	Zn ²⁺	Ni ²⁺	Cd 2+	Co ²⁺	Cu ²⁺
B_{max}	4.4 ± 0.12	4.3 ± 0.23	1.6	3.0 ± 0.2	11.0 ± 0.8
K _d (Apparent)	1.7 ± 0.29	6.9 ± 1.5	ND	9.0 ± 2.0	30.8 ± 5.3

FIGURE 2

Gateway				HDEL	Proposed	Selection in	Selection
Vectors	Promoter	AgNt84			_	Agrobacterium	in Plants
pMDC7	estradiol	+	•	-			Hygromycin
pMDC7	estradiol	+	+	-	pBEAG1		Hygromycin
pMDC30	Hsp	+	-	-	pBHAN1		Hygromycin
pMDC30	Hsp	+	+	-	pBHAG1	Kanamycin	Hygromycin
pMDC32	CaMV 35S	+	-	_	pBCAN1	Kanamycin	Hygromycin
pMDC32	CaMV 35S	+	+	_	pBCAG1	Kanamycin	Hygromycin

Figure 3a

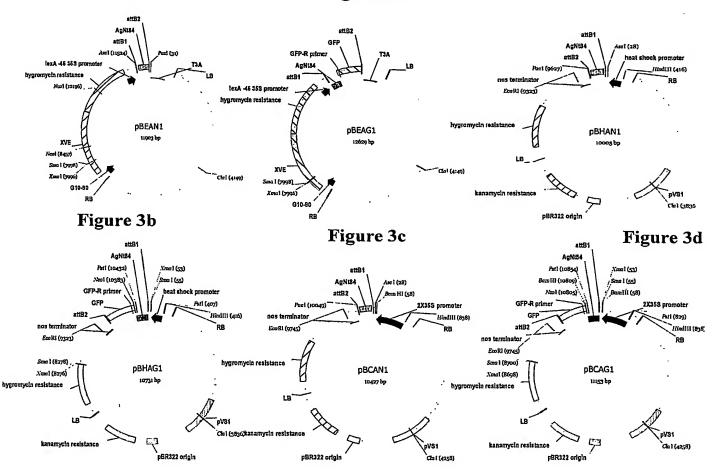


Figure 3e

Figure 3f

Figure 3g



Figure 3h

Gateway				HDEL	Proposed	Selection in	Selection
Vectors	Promoter	AgNt84	GFP	Tag	Name	Agrobacterium	in Plants
	estradiol	+	+	+	pBEAGE1	Spectinomycin	Hygromycin
pMDC30		+	+	+	pBHAGE1		Hygromycin
pMDC202	CaMV 35S	+	+	+	pBCAGE1		Hygromycin

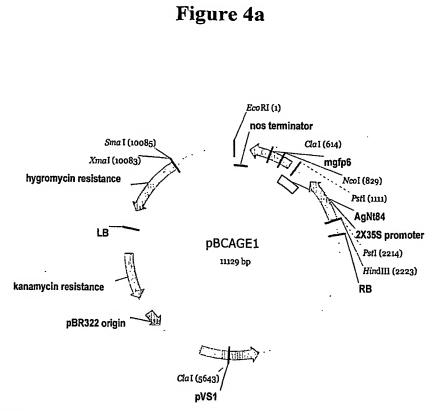


Figure 4b

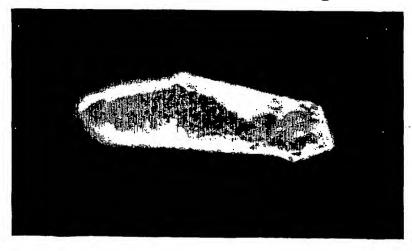


Figure 4c